

401
One shot

FIG. 2

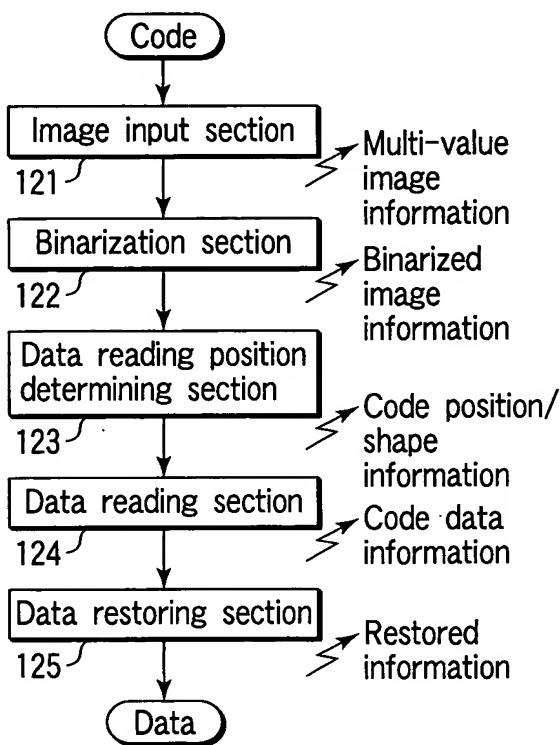


FIG. 3

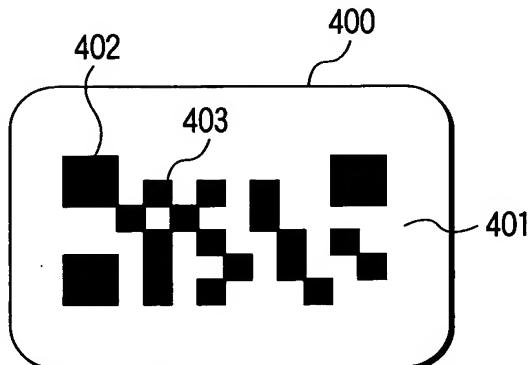


FIG. 4

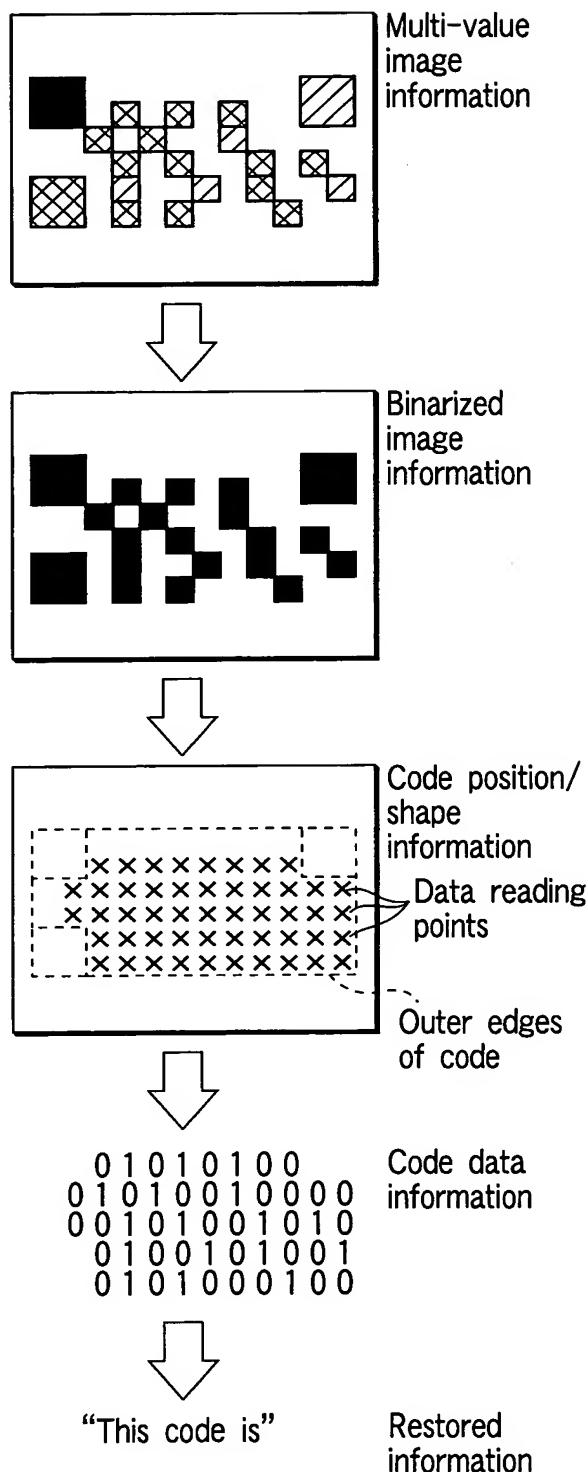


FIG. 5

Multi-value image information

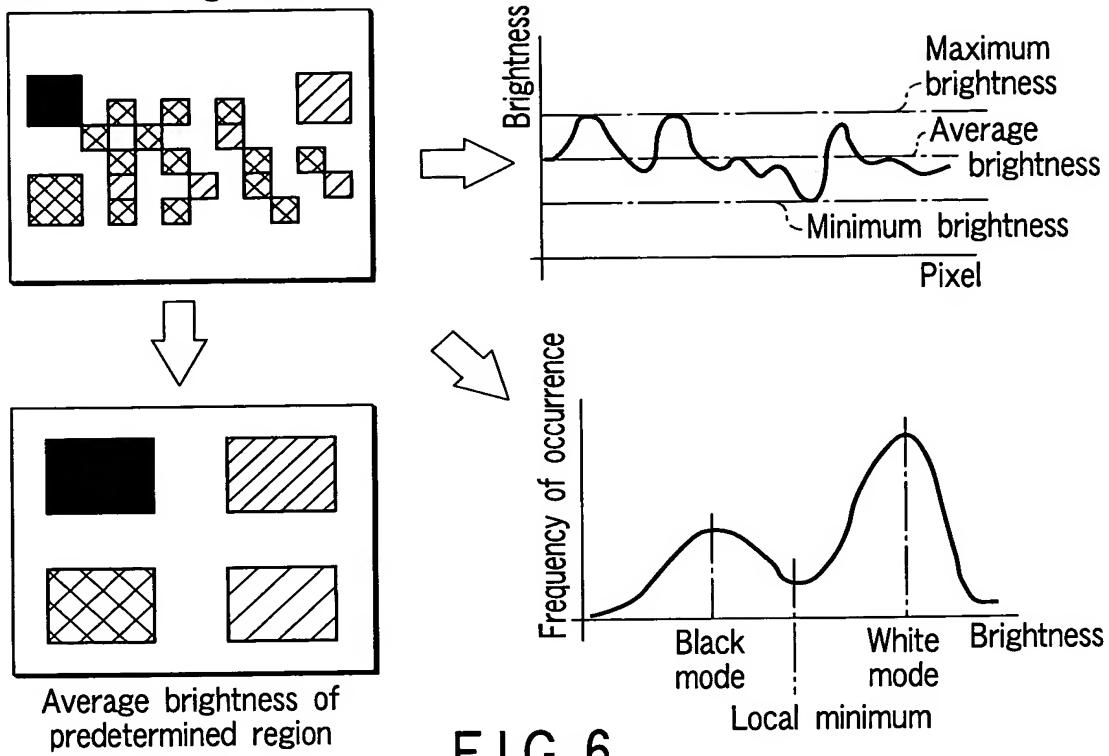


FIG. 6

Binarized image information

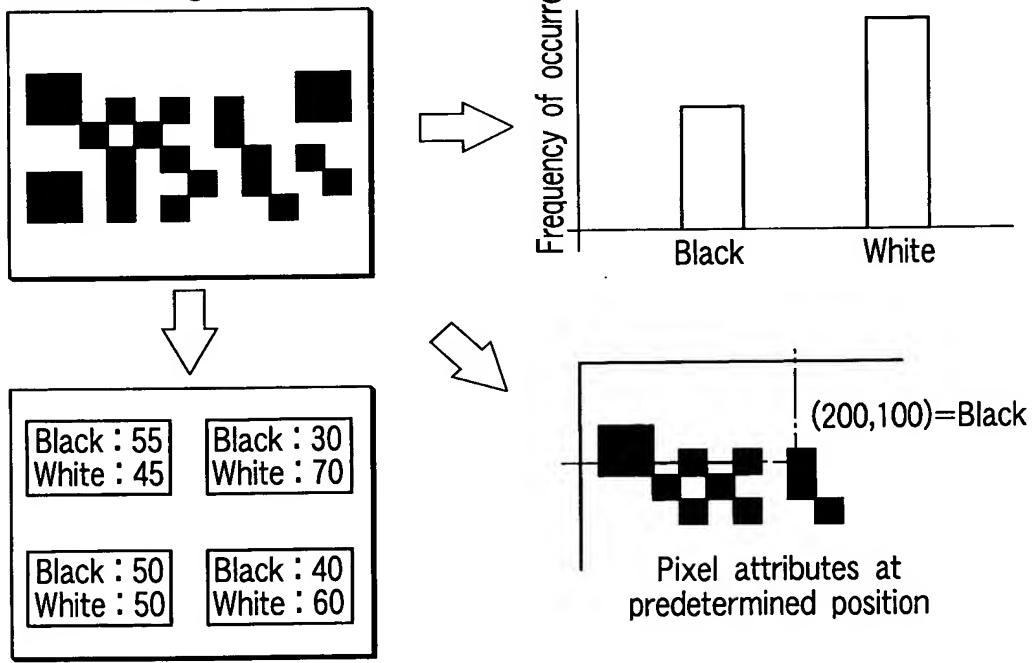
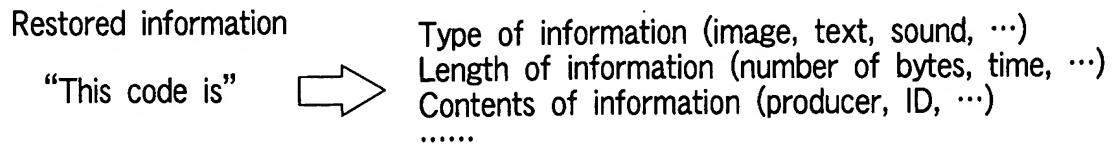
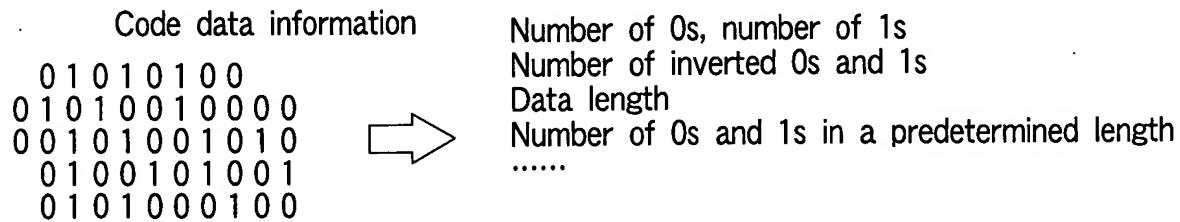
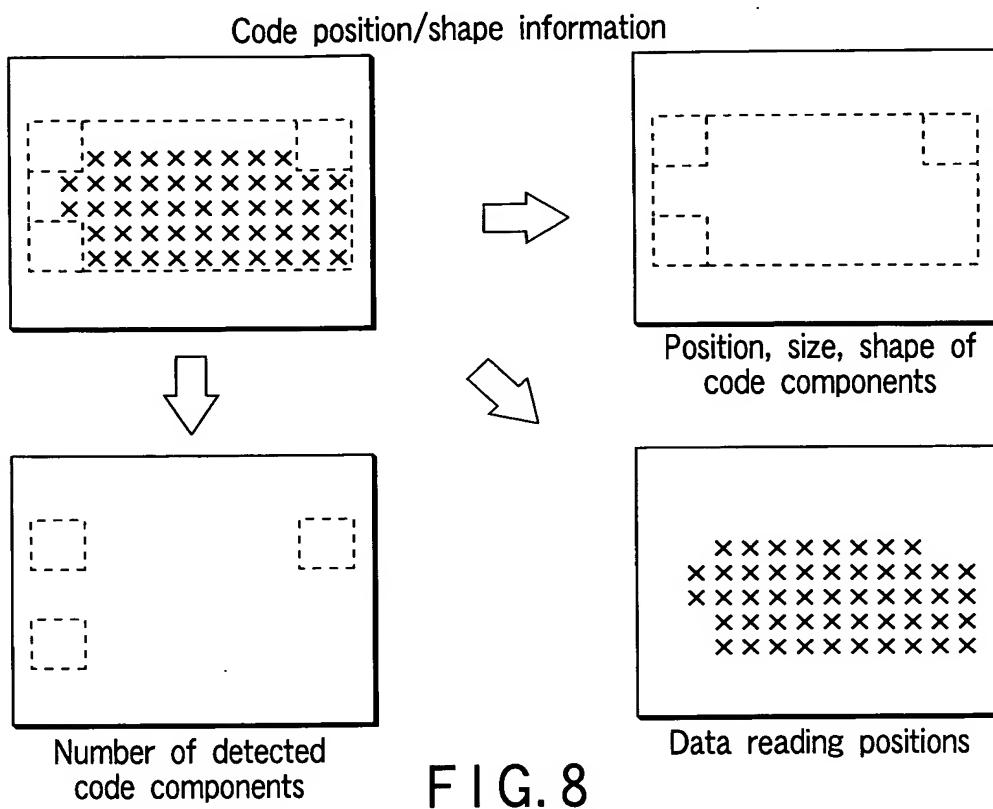


FIG. 7

40086422 - 030102



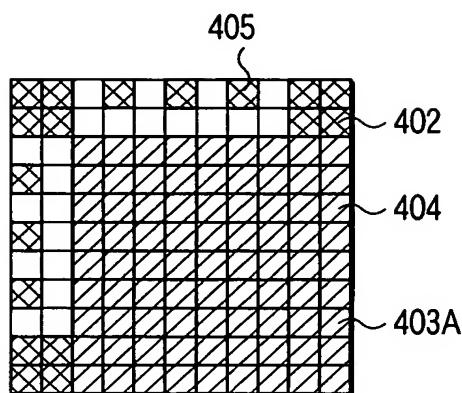


FIG. 11
PRIOR ART

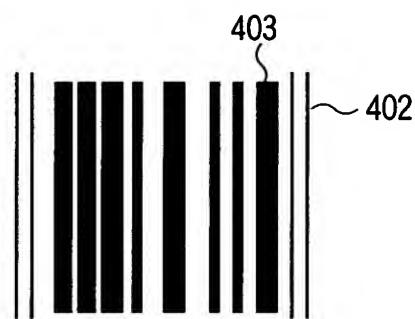


FIG. 12
PRIOR ART

FIG. 13
PRIOR ART

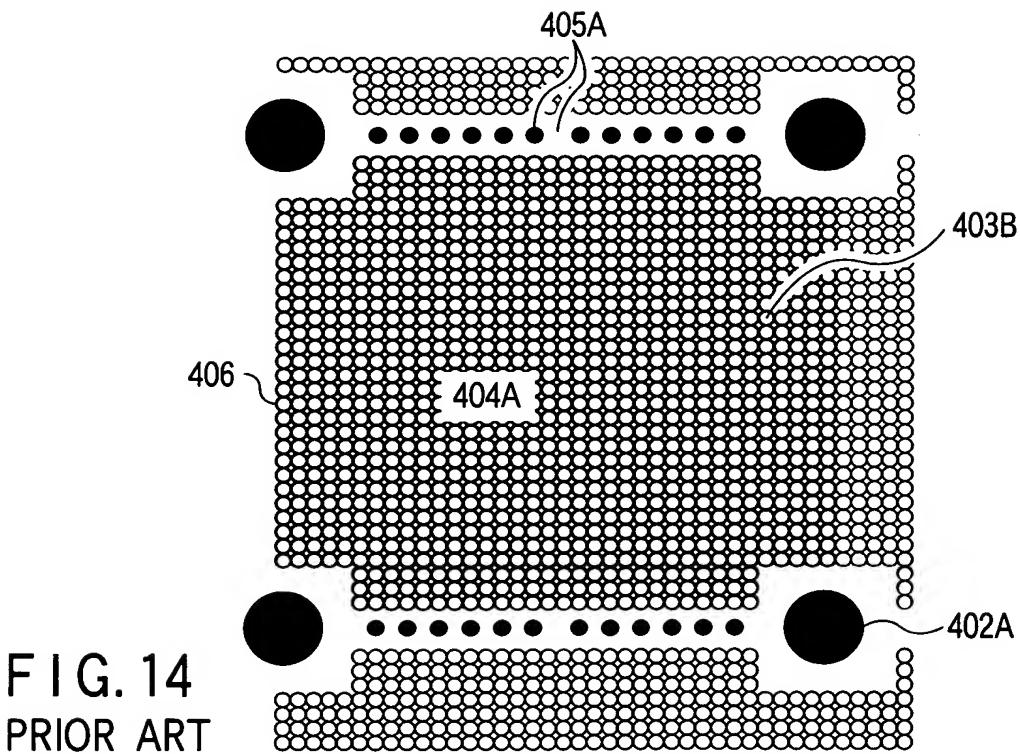
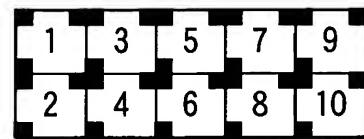


FIG. 14
PRIOR ART

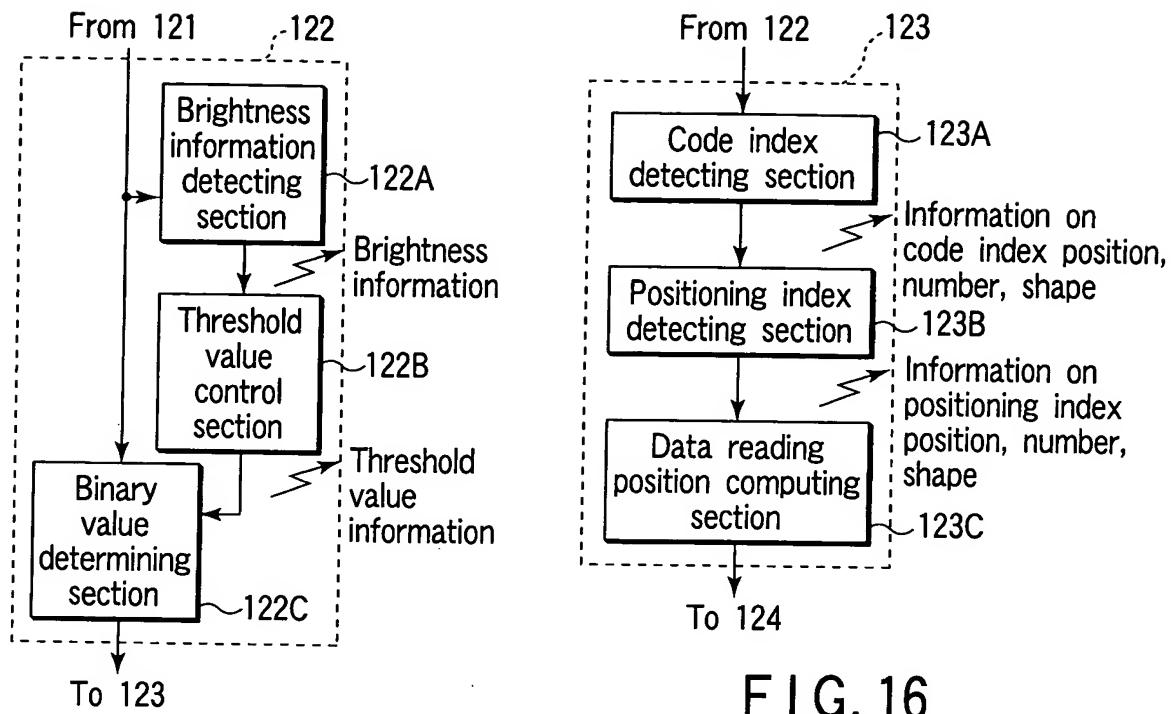


FIG. 15

FIG. 16

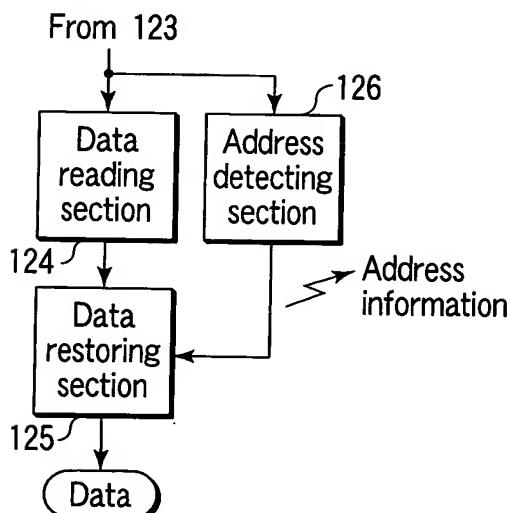


FIG. 17

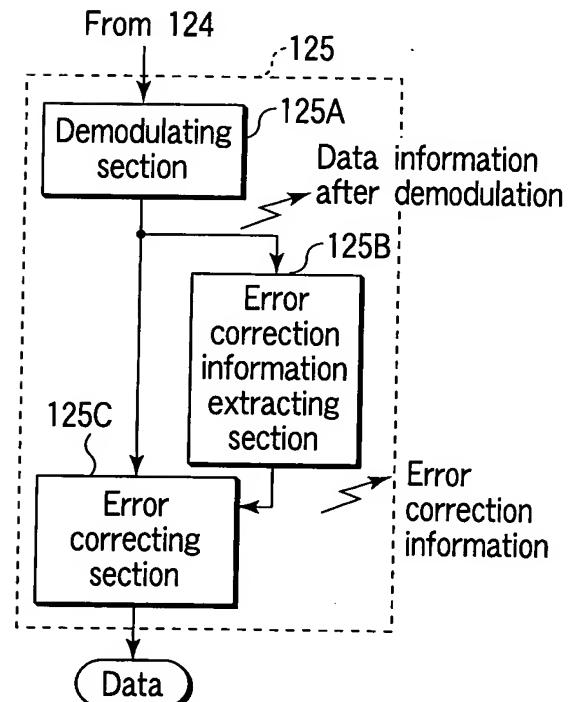
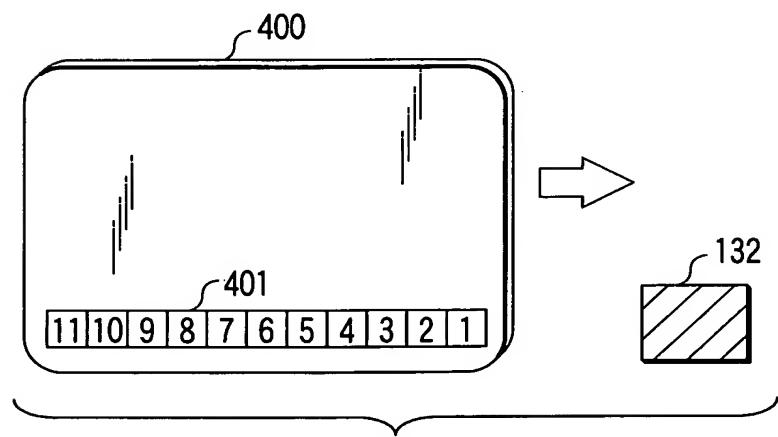
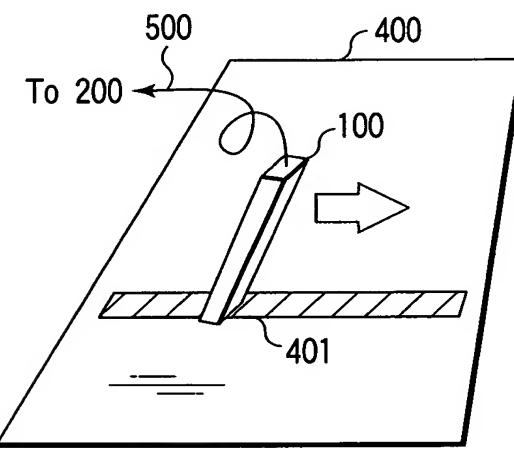
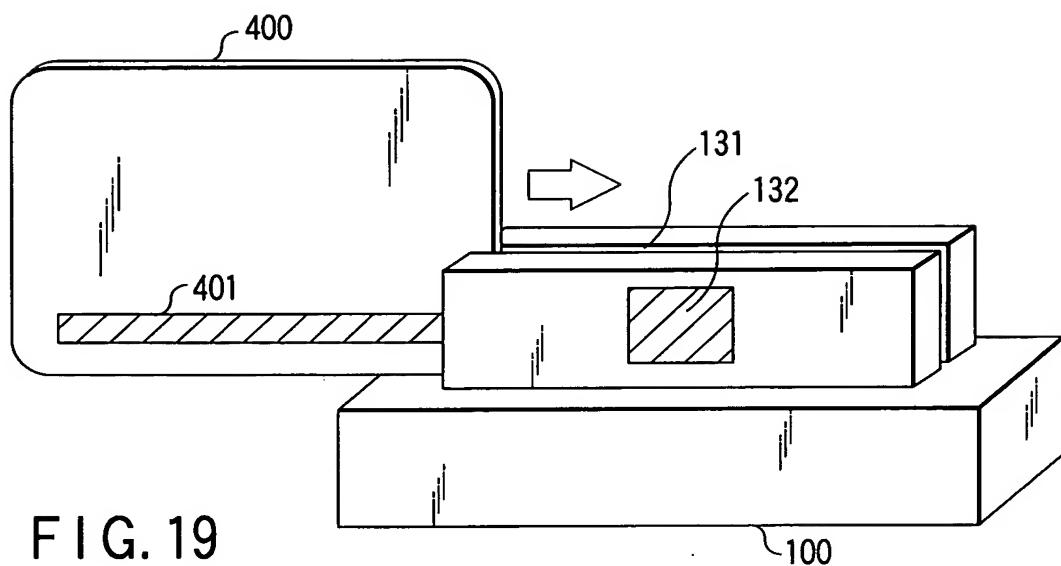


FIG. 18



8	7	6	5

Picked up image

FIG. 22

10	9	8	7

Picked up image

FIG. 23

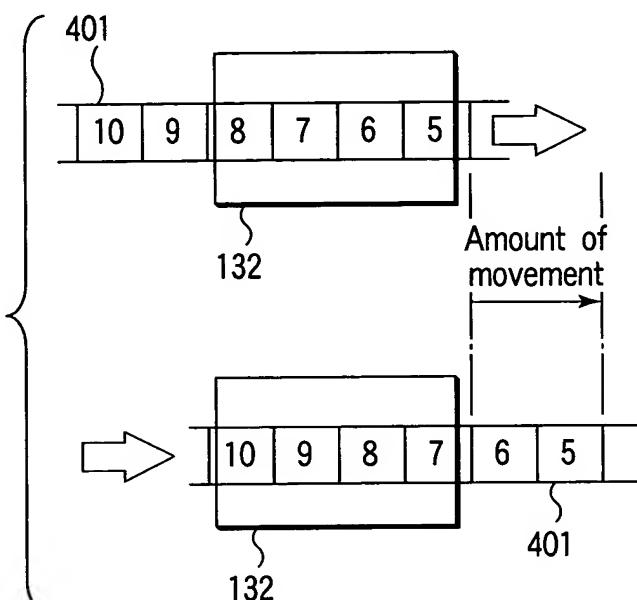


FIG. 24

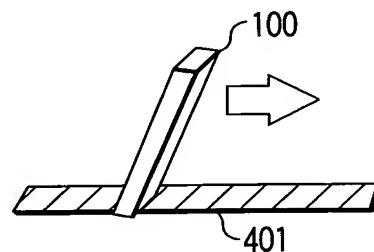


FIG. 25

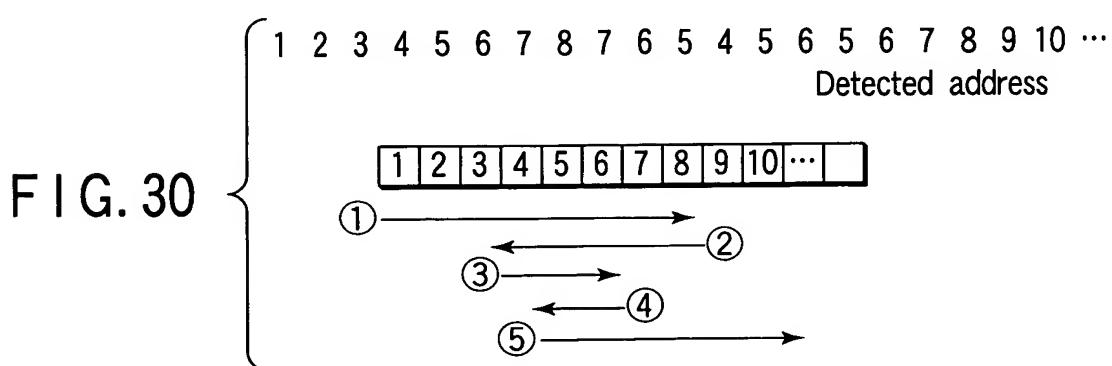
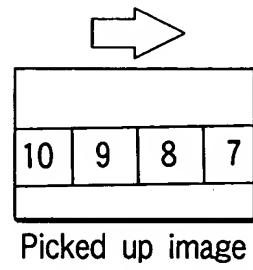


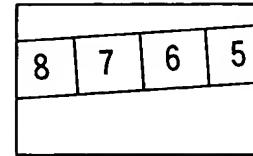
FIG. 30

20086422-200102



Picked up image

FIG. 26



Picked up image

FIG. 27

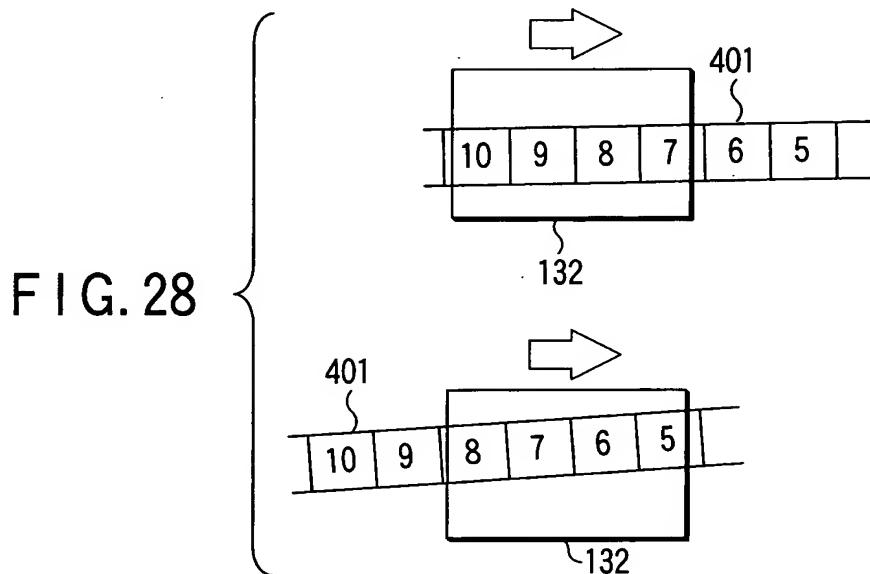
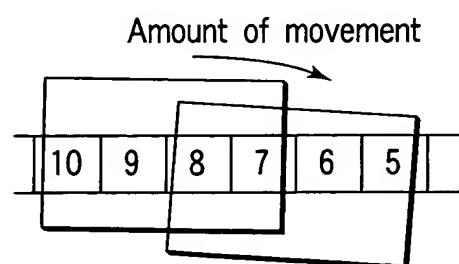


FIG. 28



Picked up images

FIG. 29

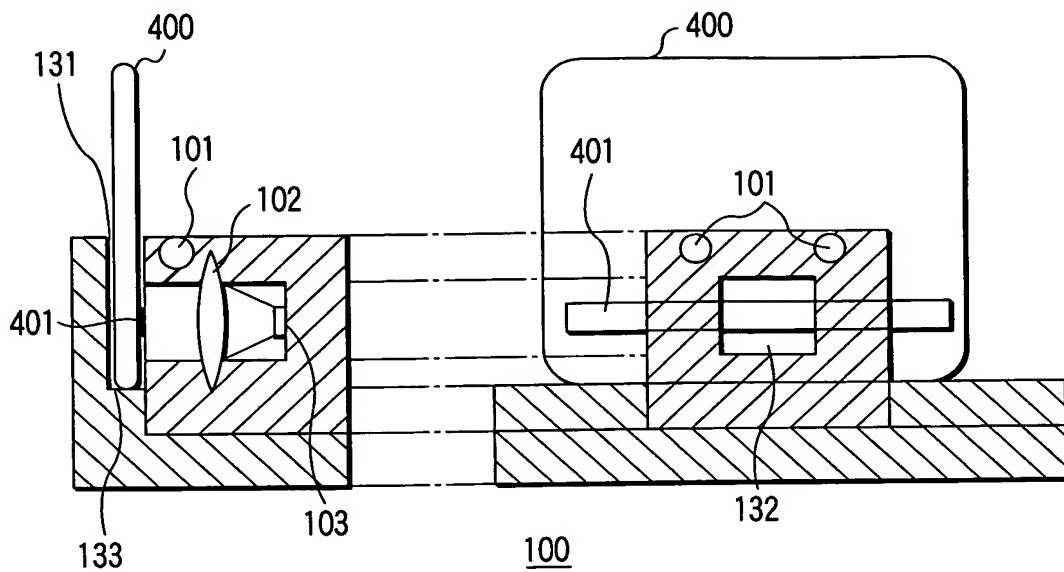
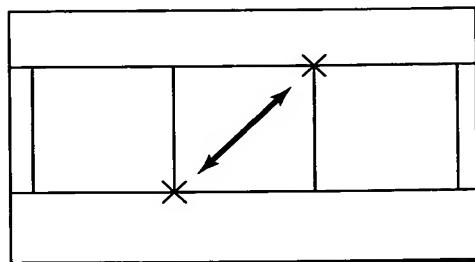


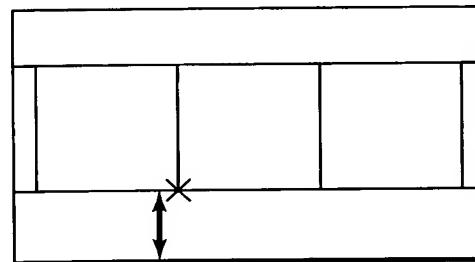
FIG. 31

20086422-030102



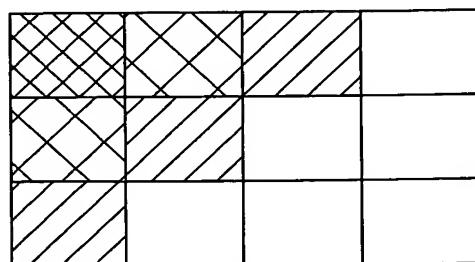
Parameter relating to
lens magnification

FIG. 32



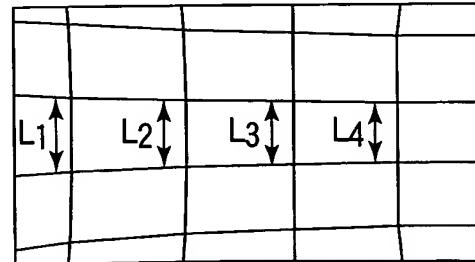
Parameter relating to
guide position

FIG. 33



Parameter relating to
lighting condition

FIG. 34



Parameter relating to
distortion

FIG. 35

Detected information	Acquired parameter	Parameter relating to code reading apparatus	Parameter relating to recording medium	Parameter relating to way of reading code	Parameter relating to code reading operation
Environment information	Reading environment (temperature; humidity; time; position; atmospheric pressure)	<input type="radio"/>	<input type="radio"/>		
	Power supply rising time; supply voltage			<input type="radio"/>	<input type="radio"/>
Multi-value image information	Maximum brightness (suspension, tilt; lighting intensity, sensor sensitivity; reflectivity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Minimum brightness (suspension, tilt; lighting intensity, sensor sensitivity; reflectivity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Average brightness (suspension, tilt; lighting intensity, sensor sensitivity; reflectivity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Brightness distribution (suspension, tilt; lighting intensity, sensor sensitivity; reflectivity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Average brightness of predetermined region	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Ratio of maximum brightness/minimum brightness (density)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Brightness of code components	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

FIG. 36A

Threshold value information	Threshold value
Binarized image information	Number of black pixels Ratio of white pixels/black pixels
Information on positions, number, shape of code indexes (positioning indexes)	Code indexes detecting positions Number of detected code indexes Size of code indexes Shape of code indexes Center of gravity/center position of code indexes Intervals separating code indexes (size of code; size of block) Positional relationship of code indexes (shape of code; shape of block) Missing information of code indexes
Address information	Address Number of corrected address errors (missing address data) Positions of corrected address errors Address missing information

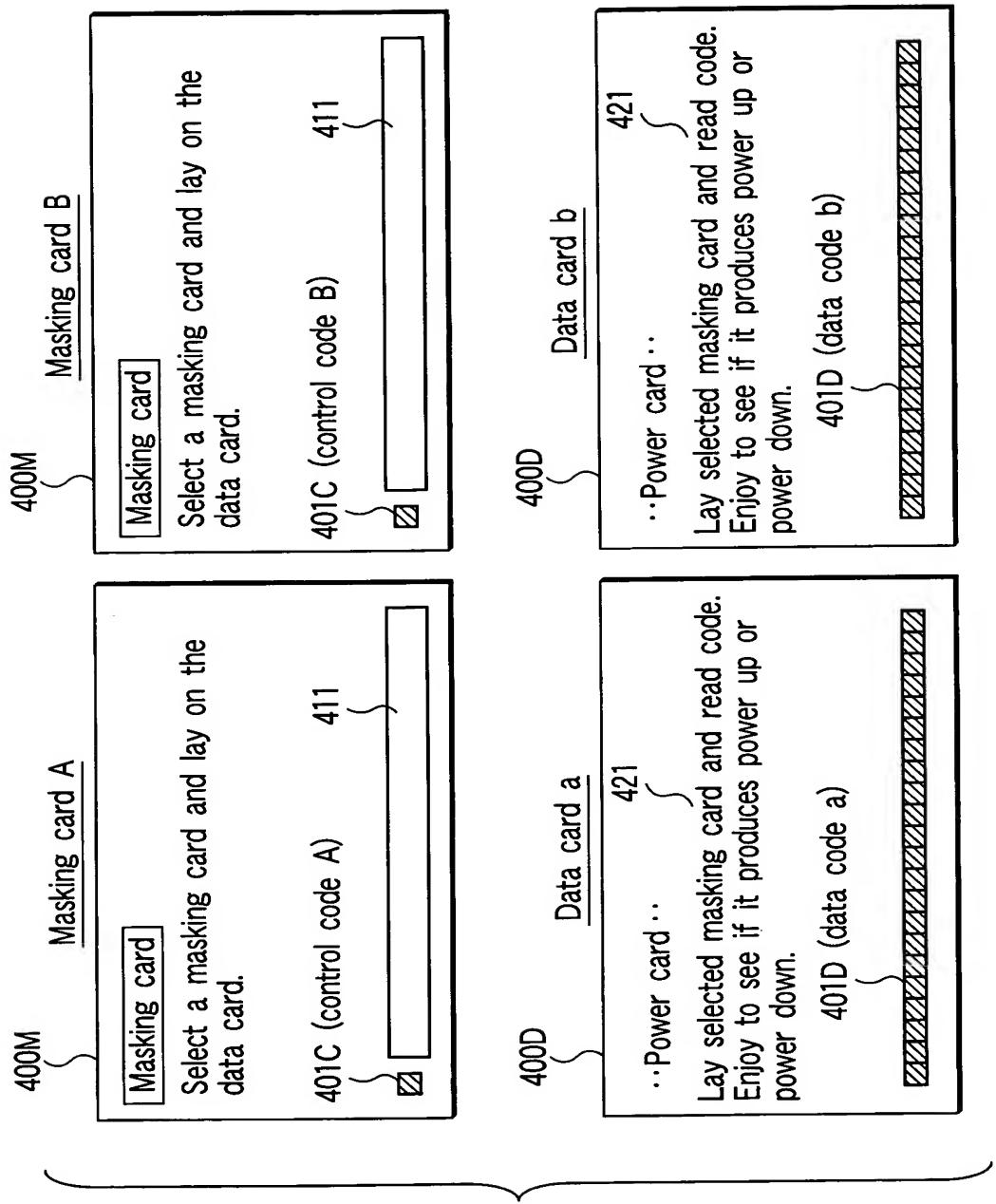
FIG. 36B

2010E0 "22198007"

Code data information	Data reading positions
	Number of black dots, number of white dots
Black/white ratio	
Data length	
Number of read blocks	
Demodulated data information	Number of 1s; number of 0s
	1/0 ratio
Error correction information	Number of corrected errors (missing data)
	Positions of corrected errors
Restored information	ID; producer, type of information
	Recording time; amount of data
Relative movement information	Moving speed
	Moving direction
	Number of movements
	Meandering
	Time spent from command input to shooting of code at predetermined

○ represents particularly effective parameter

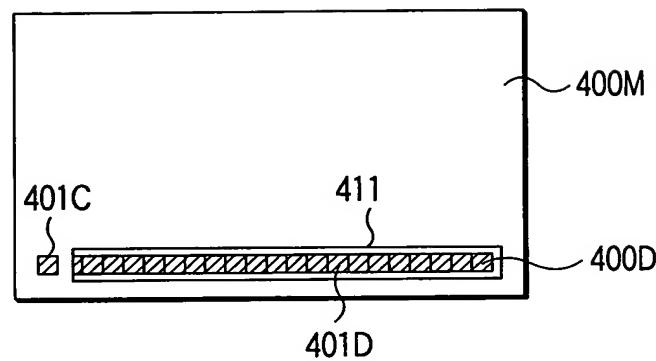
FIG. 36C



F | G. 37

2

FIG. 38



10086422-030202

FIG. 39

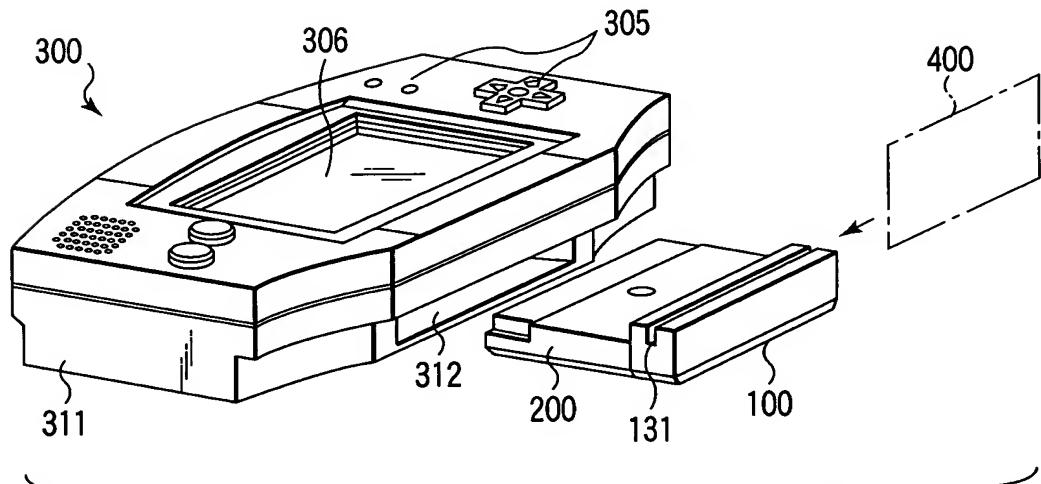
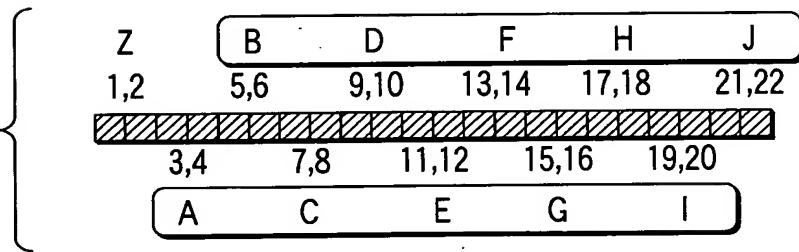


FIG. 40

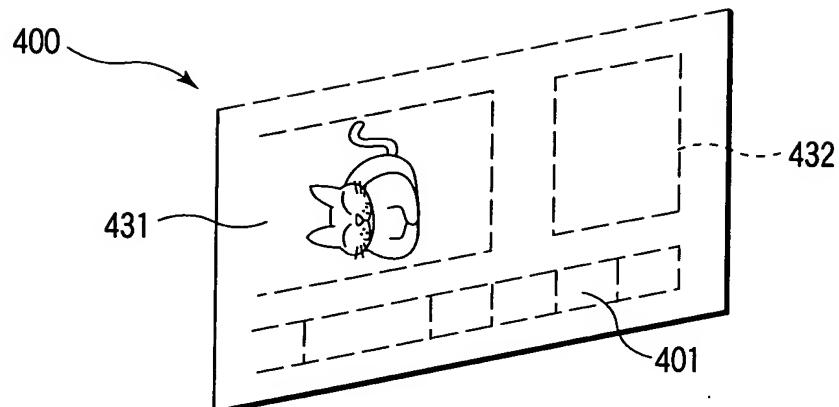


FIG. 41

A table structure with three columns: 'Card ID', 'Attribute', and 'Data section'. The 'Data section' column is labeled 401 above it.

Card ID	Attribute	401 Data section
---------	-----------	---------------------

- Information to be provided with randomness + plurality of pieces of information to be used for providing randomness
- Information to be provided with randomness + program adapted to select a plurality of motions
- Information to be provided with randomness + program adapted to handle a plurality of program parameters

FIG. 42

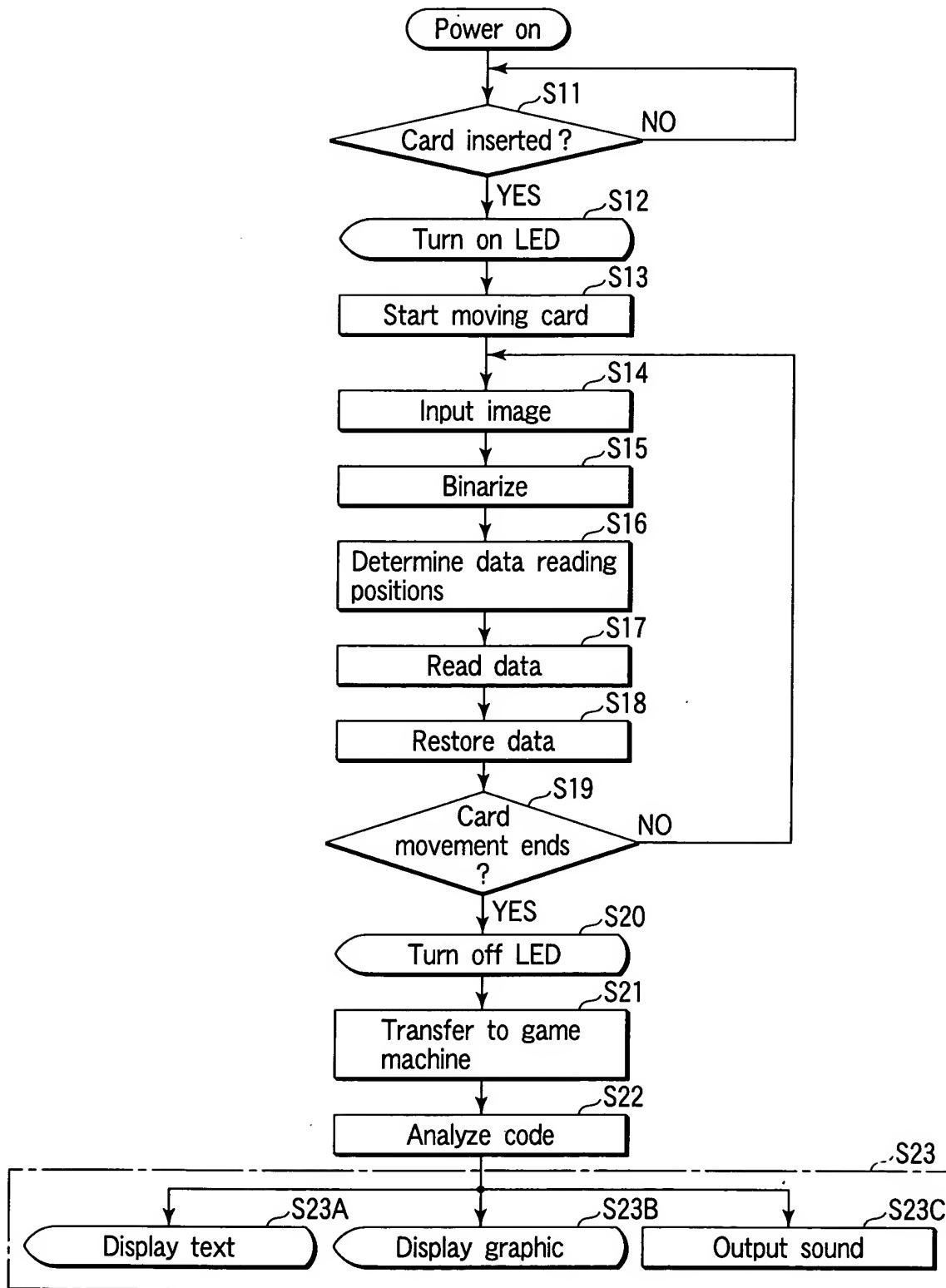


FIG. 43

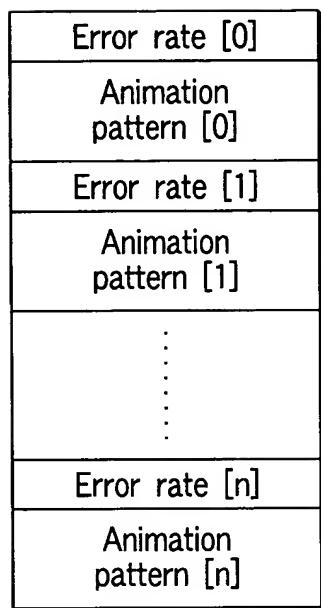


FIG. 44

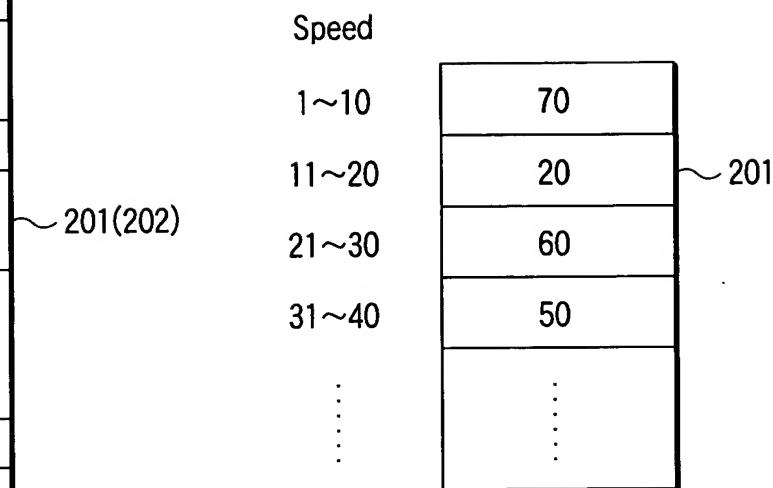


FIG. 50

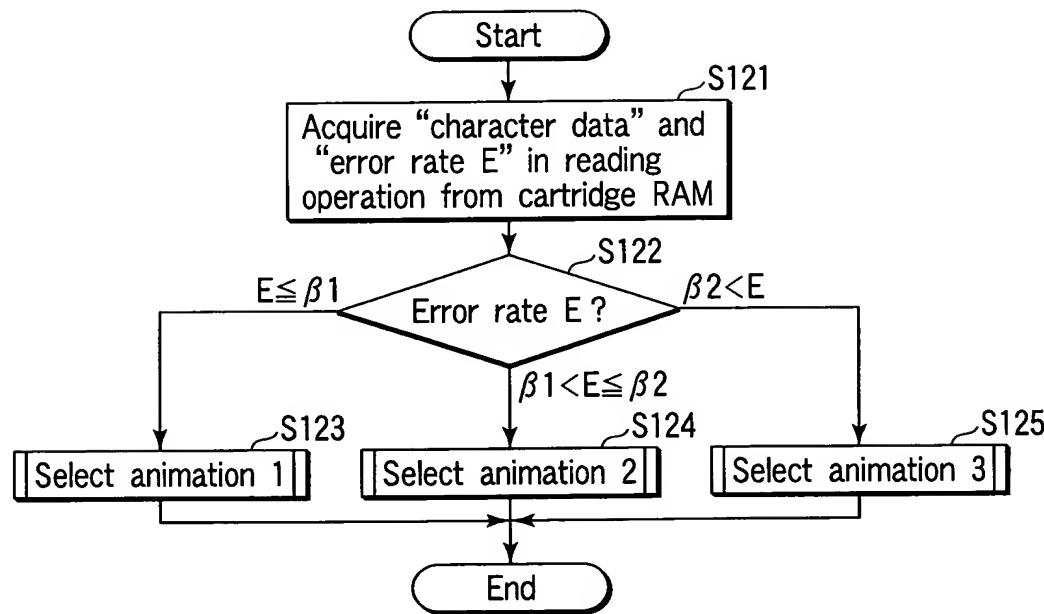


FIG. 46

20100222-090102

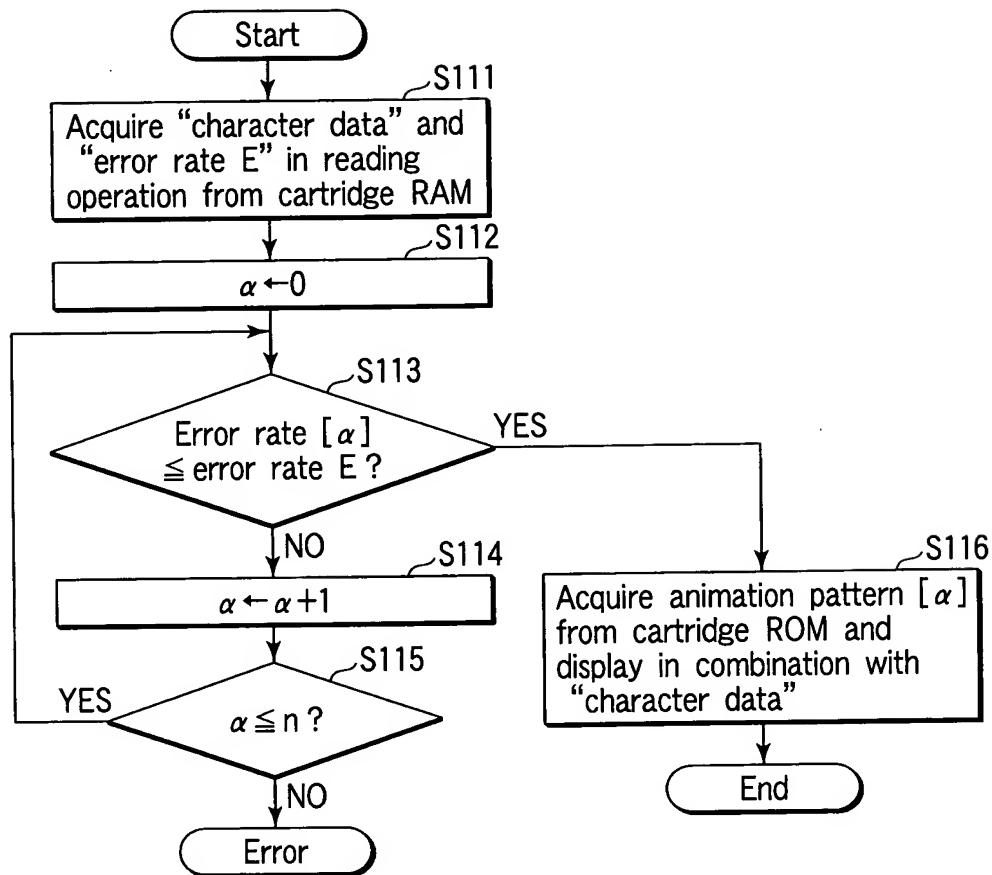


FIG. 45

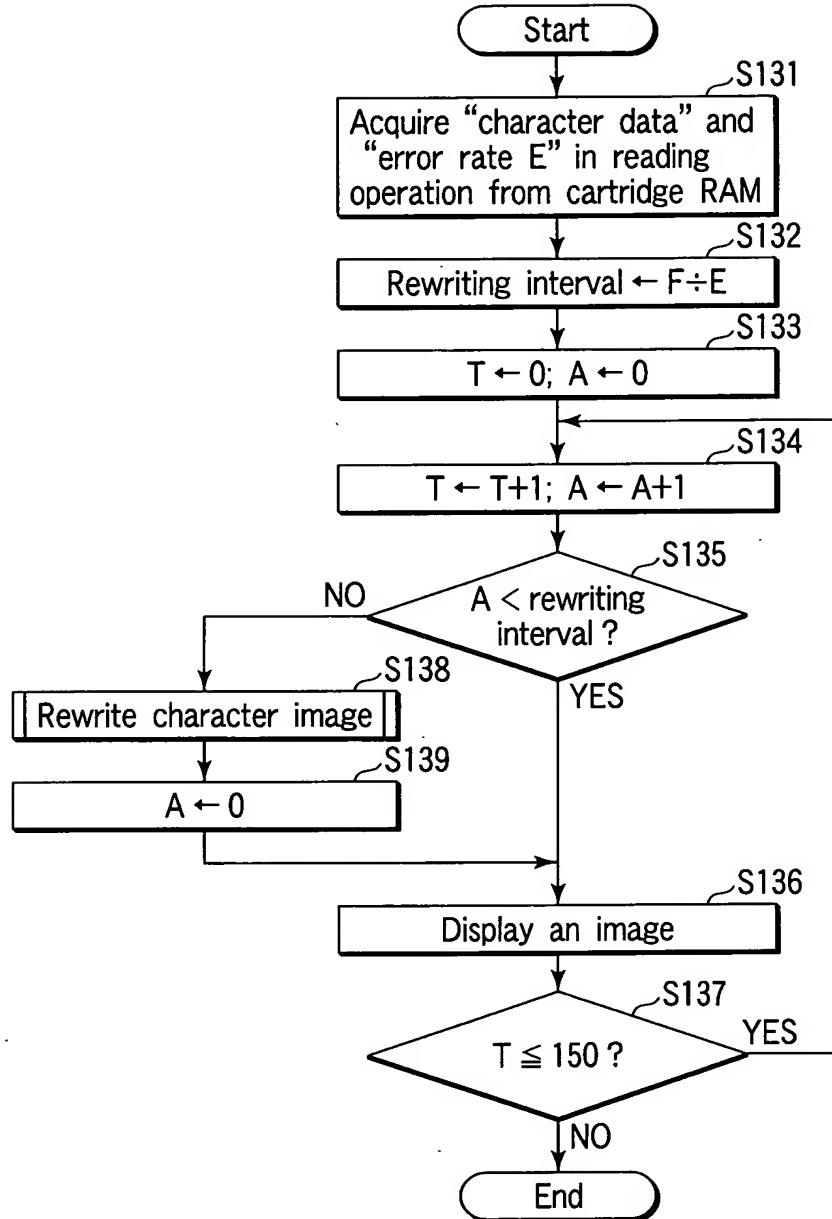


FIG. 47

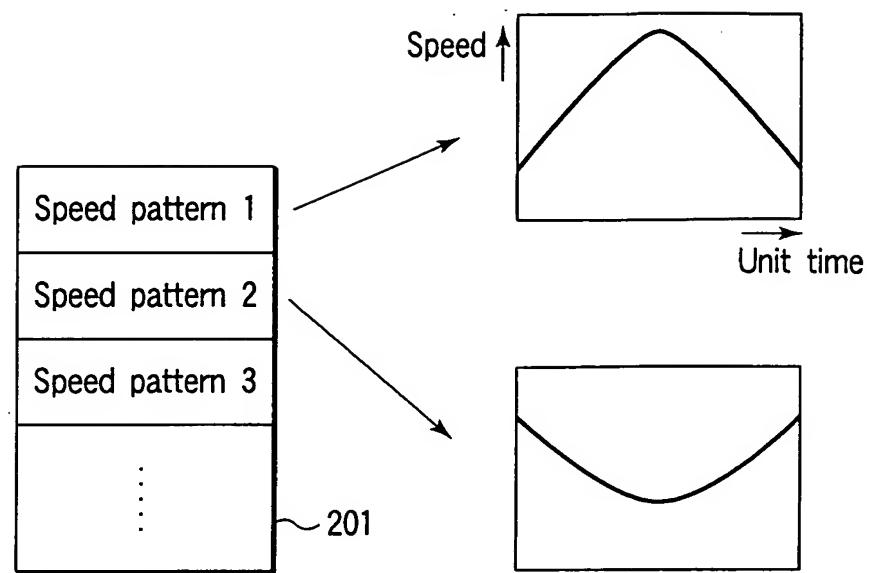


FIG. 48

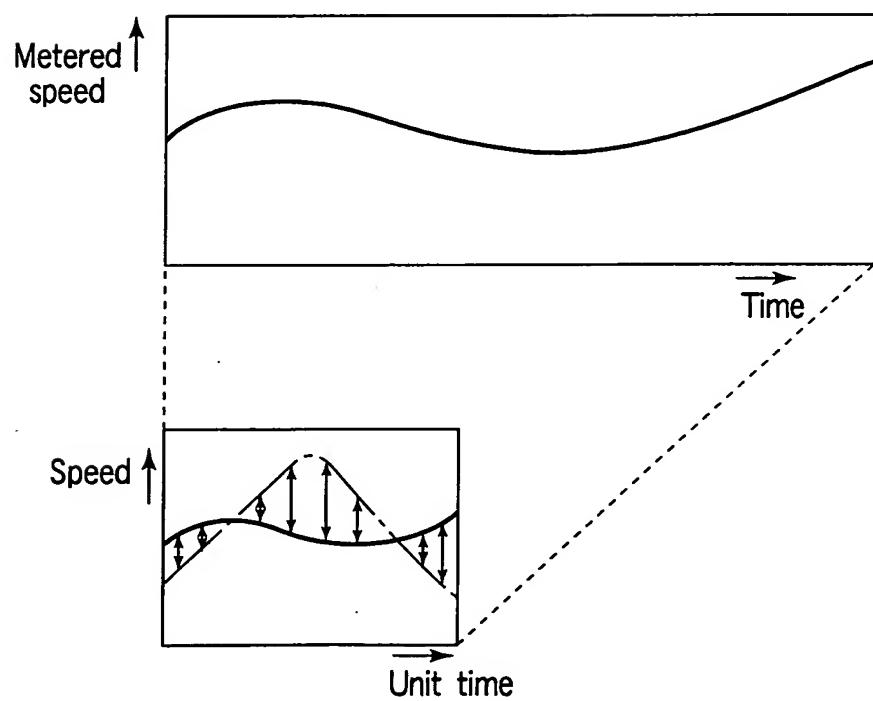


FIG. 49